

20000W CW Fiber Laser

Everfoton's 20000W CW Fiber Laser is designed to deliver the best performance on metal cutting, welding, and drilling based on its unique features such as high back reflection resistance, high wall plug efficiency, and compact design. Flat top beam enables excellent-quality cutting and welding of thick sheet metals.



Applications

- Sheet metal machining-cutting
- Welding



Characteristics

- High wall-plug efficiency
- Flat top beam option
- Multi-stages anti-back reflection protection
- Compact design with small footprint
- Less spatter in welding
- High efficiency in cutting thick sheet metals

Specifications

	Product Code	FFSC-20000
Optical Parameters	Output Power (W)	20000
	Operating Mode	CW / Modulated
	Polarization State	Random
	Output Power Tunability (%)	10 - 100
	Beam Quality BPP (mm x mrad)	< 6.0
	Output Power Instability 25°C (%)	< 2 (2 hours)
	Emission Wavelength (nm)	1080 ± 5
	Spectrum Width FWHM (nm)	< 4
	Modulation Frequency (kHz)	5
	Red Laser Power (µW)	> 200
Fiber Delivery Cable Parameters	Output Type	Q + / LOE
	Length (m)	25
	Core Diameter (µm)	100/150
	Minimum Bending Radius (mm)	200
Electrical Characteristics	Operating Voltage (VAC)	340 - 420, 3P5W 50 / 60Hz
	Max Power Consumption (kW)	60
	Control Mode	RS232 / AD / Ethernet
Other Characteristics	Operating Temperature (°C)	10 - 40
	Humidity (%)	10 - 80
	Cooling Method	Water Cooled
	Water-cooling Temperature (°C)	25 ± 1
	Water-cooling Flow (L/min)	> 200 (Laser), 2 - 4 (QD)
	Water-cooling Pressure (Bar)	5 - 6
	Joint Diameter (mm)	40
	Min Cooled Capacity (kW)	40
	Dimension (mm)	W810 x D750 x H1100 (Not Include Lights)
	Weight (kg)	500 ± 20